

CLAIMS:

1. A laser sintering powder comprising at least one polyamide and titanium dioxide particles.

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2. The sintering powder as claimed in claim 1, wherein the polyamide has at least 8 carbon atoms per carboxamide group.

10 3. The sintering powder as claimed in claim 1, wherein the polyamide is one or more of nylon-6,12, nylon-11, or nylon-12.

15 4. The sintering powder as claimed in claim 1, comprising from 0.01 to 30% by weight of titanium dioxide particles based on the total amount of the polyamide present in the powder.

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5. The sintering powder as claimed in claim 4, comprising from 0.5 to 15% by weight of titanium dioxide particles based on the total amount of the polyamide present in the powder.

20 6. The sintering powder as claimed in claim 1, comprising a mixture of titanium dioxide particles and particles of one or more polyamides.

7. The sintering powder as claimed in claim 1, comprising titanium dioxide particles incorporated within polyamide particles.

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8. The sintering powder as claimed in claim 1, wherein the titanium dioxide particles are anatase particles, rutile particles or a mixture of anatase and rutile particles.

30 9. The sintering powder as claimed in claim 1, further comprising at least one of an auxiliary or a filler.

10. The sintering powder as claimed in claim 9, comprising a flow aid.

11. The sintering powder as claimed in claim 9, comprising glass particles.

12. A process for preparing sintering powder as claimed in claim 1, comprising mixing at least one polyamide powder with titanium dioxide particles.

5 13. The process as claimed in claim 12, wherein mixing includes compounding the titanium dioxide particles into the polyamide powder.

14. A process for producing moldings comprising: selectively laser-sintering the sintering powder claimed in claim 1.

10 15. A molding produced by laser sintering a powder which comprises titanium dioxide and at least one polyamide.

16. The molding as claimed in claim 15, wherein the polyamide has at least 8
15 carbon atoms per carboxamide group.

17. The molding as claimed in claim 15, wherein the polyamide is at least one of nylon-6,12, nylon-11, or nylon-12.

20 18. The molding as claimed in claim 15, wherein the powder comprises from 0.01 to 30% by weight of titanium dioxide particles, based on the total amount of the polyamide present in the powder.

25 19. The molding as claimed in claim 18, wherein the powder comprises from 0.5 to 15% by weight of titanium dioxide particles based on the total amount of the polyamide present in the powder.

20. The molding as claimed in claim 15, wherein the titanium dioxide particles are anatase particles, rutile particles, or a mixture of anatase and rutile particles.

30 21. The molding as claimed in claim 15, further comprising one or more fillers.

22. The molding as claimed in claim 21, comprising glass particles.